

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number
WO 2005/087252 A1(51) International Patent Classification⁷: **A61K 38/17**(21) International Application Number:
PCT/BR2005/000036

(22) International Filing Date: 18 March 2005 (18.03.2005)

(25) Filing Language: English

(26) Publication Language: English

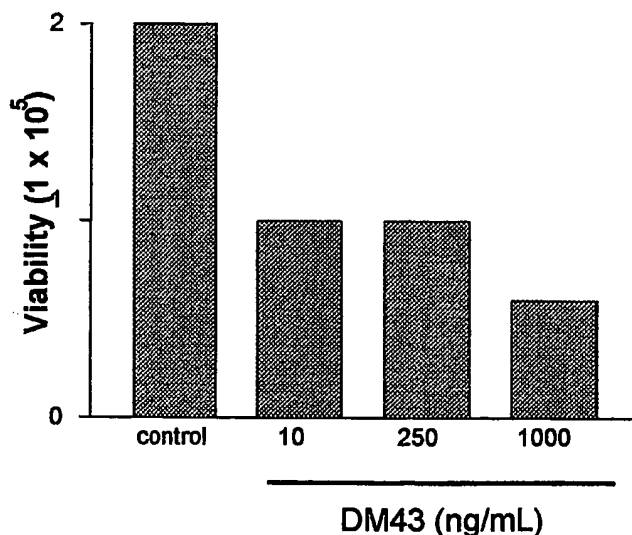
(30) Priority Data:
0400284-9 18 March 2004 (18.03.2004) BR(71) Applicant (for all designated States except US): FUN-
DAÇÃO OSWALDO CRUZ-FIOCRUZ [BR/BR];
Avenida Brasil 4365, Manguinhos, CEP- 21045-900 Rio
de Janeiro (BR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): JURGILAS, Pa-
tricia, Barbosa [BR/BR]; Av. Brasil 4365, Manguinhos,
Rio de Janeiro, RJ (BR). DE MEIS, Juliana [BR/BR];
Av. Brasil 4365, Manguinhos, Rio de Janeiro, R.J. (BR).
VALENTE, Richard, Hemmi [BR/BR]; Av. Brasil 4365,
Manguinhos, Rio de Janeiro, R.J. (BR). FERREIRA,
Ana, Gisele da Costa Neves [BR/BR]; Av. Brasil 4365,
Manguinhos, Rio de Janeiro, R.J. (BR). DA CRUZ,
Daniella, Areas, Mendes [BR/BR]; Av. Brasil 4365,Manguinhos, Rio de Janeiro, R.J. (BR). DE OLIVEIRA,
Désio, Aurélio, Farias [BR/BR]; Av. Brasil 4365, Man-
guinhos, Rio de Janeiro, RJ (BR). SAVINO, Wilson
[BR/BR]; Av. Brasil 4365 Manguinhos, Rio de Janeiro,
R.J. (BR). DOMONT, Gilberto, Barbosa [BR/BR];
Rua Cel. Eurico de Souza Gomes filho 375/101, Jardim
Oceânico, Rio de Janeiro, R.J. (BR). AGUILAR, Jonas,
Enrique, Perales [BR/BR]; Av. Brasil 4365, Manguinhos,
Rio de Janeiro, R.J. (BR).(74) Agent: DE ALMEIDA, Kátia, Fernandes; Behring,
Almeida & Associados, Rua Beneditinos 16, 11° andar,
Centro, 20081-050 Rio de Janeiro, RJ (BR).(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: USE OF DM43 AND ITS FRAGMENTS AS MATRIX METALLOPROTEINASES INHIBITOR

(57) Abstract: This invention is
related to the use of DM43 protein as
a metalloproteinases inhibitor. More
specifically, this invention is related to
the use of DM43 for the therapeutics
of pathologies such as cancer and
osteoarthritis, which are dependent on
matrix metalloproteinases inhibition,
based on the structure identity with
SVMPs.

WO 2005/087252 A1

WO 2005/087252 A1



FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments*

Published:

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*